

In the Claims:

Claims 1-71 (canceled).

Claim 72 (previously presented): An imager cell comprising:

a photoreceptor, wherein the photoreceptor comprises a photogate;

a sense node; and

a pinned transfer gate formed by an implanted P type region within an implanted N type transfer region, the implanted P type region being pinned to a potential of a P type substrate, wherein the P type substrate surrounds the N type transfer region, and wherein the transfer gate is disposed to transfer charge between the photoreceptor and the sense node.

Claim 73 (previously presented): An imager cell comprising:

a photoreceptor, wherein the photoreceptor comprises a photodiode;

a sense node; and

a pinned transfer gate formed by an implanted P type region within an implanted N type transfer region, the implanted P type region being pinned to a potential of a P type substrate, wherein the P type substrate surrounds the N type transfer region, and wherein the transfer gate is disposed to transfer charge between the photoreceptor and the sense node.

Claim 74 (previously presented): An imager cell comprising:

a photoreceptor;

a sense node;

a reset transistor disposed to reset the sense node; and

a pinned transfer gate formed by an implanted P type region within an implanted N type transfer region, the implanted P type region being pinned to a potential of a P type substrate, wherein the P type substrate surrounds the N type transfer region, and wherein the transfer gate is disposed to transfer charge between the photoreceptor and the sense node.

Claim 75 (previously presented): An imager cell comprising:

a photoreceptor;

a sense node;

an output amplifier coupled to the sense node; and

a pinned transfer gate formed by an implanted P type region within an implanted N type transfer region, the implanted P type region being pinned to a potential of a P type substrate, wherein the P type substrate surrounds the N type transfer region, and wherein the transfer gate is disposed to transfer charge between the photoreceptor and the sense node.

Attorney Docket No.: 0190107

Claim 76 (previously presented): An imager cell as defined in claim 75, wherein the output amplifier is a source follower amplifier.